VIII. MILESTONES

Goal A: For at least the next 5 years, continue and enhance statewide water quality assessment processes to evaluate water quality and prioritize watersheds affected by nonpoint source (NPS) pollution.

Objective 1

Periodically assess and prioritize watersheds in need of restoration due to NPS pollution based on available methodologies.

Lead Agency(ies): Clean Water Commission, DNR, NRCS **Projected Completion:** Ongoing – every 2-3 years

Status:

Objective 2

Continue to improve water quality monitoring methods used to assess NPS pollution.

Lead Agency(ies): DNR

Projected Completion: Ongoing

Status:

Objective 3

By 2001, develop and propose to the Clean Water Commission numeric biological criteria, as a water quality standard, to better identify those impacted wadable streams incapable of supporting the expected biological community.

Lead Agency(ies): DNR

Projected Completion: December 2001

Status:

Objective 4

Publish a report of water quality assessment efforts using improved methodologies by 2005.

Lead Agency(ies): DNR

Projected Completion: December 2005

Coordinate with USEPA to develop nutrient criteria and propose those criteria as water quality standards by 2003.

Lead Agency(ies): DNR

Projected Completion: December 2003

Goal A: Objective Performance Measures

	2000	2001	2002	2003	2004
Production of 303(d) list					
Production of 305(b) report					
Updated Unified Watershed Assessment					
Establishment of biocriteria as water quality standards					
Establishment of nutrient criteria as water quality standards					
Number of TMDL studies completed					
Number of watersheds with ambient monitoring					
Number of watersheds with biological and habitat assessment					
Number of ambient monitoring sites by ecoregion					
Number of sites with biological and habitat assessment by ecoregion					
Number of watersheds with ambient, biological, and habitat assessmen	nts				
Number of watershed water quality models of NPS pollutants developed	ed				

Goal A:	Participating	Status
Implementation Strategies	Agency(ies)	
Coordinate with NPS partners to	DNR	
develop biocriteria and nutrient criteria	MDC	
•	UOE	
Continue statewide monitoring of	DNR	
aquatic flora and fauna	MDC	
Conduct special studies of habitat and	DNR	
fish communities	MDC	
Conduct fish tissue sampling	MDC	
	DOH	
Collect, manage and disseminate	DNR	
quality assured water quality data	DOA	
	MDC	
	UOE	
Support training of volunteers	DNR	
	MDC	
	UOE	
	NRCS	
Continue monitoring on the Missouri	MDC	
and Mississippi Rivers		
Review available data and watershed	DNR	
priorities	DOA	
	MDC	
	NRCS	
Review existing water quality	DNR	
standards every 3 years	MDC	
Develop a watershed prioritization tool	DNR	
useful at the 14-digit HUC level of	MDC	
detail	NRCS	
Continue to develop aquatic	DNR	
macroinvertebrate biocriteria	MDC	
Maintain the level of effort and	DNR	
cooperation achieved for water quality monitoring and water quality data	DOA	
management at or above FY 2000		
levels.		
icveis.		

Participate in USEPA Region 7	DNR
nutrient criteria workgroup	MDC
	NRCS
By 2004, complete at least 20 TMDL	DNR
studies	
Facilitate the development and use of	DNR
watershed water quality modeling of	DOA
NPS pollutants such as contaminated	MDC
sediments, suspended sediment,	UOE
pesticides and nutrients	NRCS

Goal B: Improve water quality by implementing NPS-related projects and other activities.

Objective 1

By 2004, 25% of waters listed on the 1998 303(d) list due to NPS pollution will meet water quality standards.

Lead Agency(ies): DNR and NPS partners **Projected Completion:** December 2004

Status:

Objective 2

By 2014, 75% of waters listed on the 1998 303(d) list due to NPS pollution will meet water quality standards.

Lead Agency(ies): DNR and NPS partners **Projected Completion:** December 2014

Status:

Objective 3

Reduce potential nonpoint sources of groundwater contamination.

Lead Agency(ies): DNR and NPS partners

Projected Completion: Ongoing

Status:

Objective 4

Cooperate and collaborate with other resource programs, agencies and private partners to prevent, manage, and reduce nonpoint sources of pollution.

Lead Agency(ies): DNR and NPS partners

Projected Completion: Ongoing

Encourage environmental stewardship through information and education.

Lead Agency(ies): UMC Extension and NPS partners

Projected Completion: Ongoing

Status:

Objective 6

By December 2004, initiate 20 or more locally led watershed projects incorporating water quality protection, restoration, or voluntary TMDL action plans.

Lead Agency(ies): USFS, DNR, NRCS, USFWS, UMC Extension

Projected Completion: December 2004

Status:

Objective 7

By 2009, begin implementing at least 20 locally led voluntary TMDL action plans.

Lead Agency(ies): Contacts for projects initiated in objective 5

Projected Completion: December 2009

Status:

Objective 8

Support pollution prevention efforts to sustain water quality of outstanding state or national resource waters.

Lead Agency(ies): DNR and NPS Partners

Project Completion: On-going

Support pollution prevention efforts to sustain water quality of those waters that are close to meeting the criteria for being placed on the 303(d) list as impacted by NPS pollutants, but have not yet attained that status.

Lead Agency(ies): DNR and NPS Partners

Project Completion: On-going

Goal B: Objective Performance Measures

<u>2000</u> <u>2001</u> <u>2002</u> <u>2003</u> <u>2004</u>

Number of local or regional watershed alliances formed

Number of Special Area Land Treatment (SALT) agricultural NPS water quality projects approved by the Soil and Water Commission

Number of acres treated and best management practices applied as part of watershed projects and voluntary WQMP/TMDL action plans

Number of watershed projects initiated

Number of voluntary TMDL action plans implemented

Number of locally led watershed projects initiated

Number of locally led voluntary TMDL action plans implemented

Number of drinking water reservoirs in compliance with NPS-related drinking water standard

Quantifiable measures on a project-specific basis such as:

tons of soil saved reductions in nutrients and pesticides applied (if appropriate) reductions in pesticides and nutrients leaving the field Number of nutrient management plans (NMP) implemented at animal feeding operations (AFOs)

Number of acres on which nutrients are applied in accordance with an approved NMP

Number or amount of State Revolving Fund loans used to prevent NPS pollution

Number of stream miles returned to compliance with water quality standards which were included on the 1998 list of impaired waters prepared under Section 303(d) of the federal Clean Water Act as a result of NPS pollution

Number of lake acres returned to compliance with water quality standards which were included on the 1998 list of impaired waters prepared under Section 303(d) of the federal Clean Water Act as a result of NPS pollution

Number of potential nonpoint sources of groundwater contamination controlled

Number of educational and informational activities conducted by government and private entities

Number of participants in educational and informational activities

Number of informational and guidance materials developed and distributed

Number of stream teams and Level I, II, and III volunteer monitoring teams

Number of abandoned wells certified as properly plugged

Number of source water protection plans

Number of acres protected by source water protection plans

Goal B:	Participating	Status		
Implementation Strategies	Agency(ies)			
Expand eligible uses of the State Revolving Loan fund programs to include prevention or control of nonpoint sources	DNR DOA			
Designate as top priority for funding assistance those waters included on the 303(d) list as impaired by nonpoint sources	DNR			
Support programs and training that provide communities and local leaders the tools to plan, fund and direct watershed protection and restoration efforts	DNR DOA MDC UOE NRCS			
Encourage and support locally led watershed projects that incorporate water quality protection, restoration, or voluntary TMDL action plans	DNR DOA MDC UOE NRCS			
Direct funding pursuant to section 319 of the Clean Water Act with maximum flexibility to complement resources available to the watershed from other programs and agencies	DNR			
Support development and adoption of innovative best management practices through resource management systems	DNR DOA MDC UOE NRCS			
Sponsor water quality information and education programs and materials	DNR DOA MDC UOE NRCS			
Offer technical assistance and cost share assistance as appropriate	DNR MDC UOE NRCS			

Support water quality, NPS issues training and technical certification processes for advisors to the public in related resource areas	DNR DOA MDC UOE	
Support activities promoting environmental stewardship in the manipulation of land by the developmental, agricultural and silvicultural communities	NRCS DNR DOA MDC UOE NRCS	
Actively seek collaborative NPS water quality protection projects that are likely to provide mutual benefits to participants and sponsors	DNR MDC UOE NRCS	
After revision of the Unified Watershed Assessment to make it a more usable tool, target Category 1 watersheds for voluntary TMDL action plans or WQMP plan implementation	DNR NRCS	
Advise local entities on the appropriate use of urban and suburban stream protection and stormwater sediment control resolutions and ordinances	DNR MDC UOE NRCS	
Promote pollution prevention and protection of waters in projects throughout the state.	DNR MDC UOE NRCS	
By 2004, integrate NPSMP goals and objectives into Phase II of the State Water Plan.	DNR	
Develop watershed restoration and protection strategies for priority areas where water quality is degraded by nonpoint source pollution due to karst topography.	DNR MDC UOE NRCS	

Goal C: Maintain a viable, relevant, and effective NPS Management Program with the flexibility necessary to meet changing environmental conditions and regulations.

Objective 1

Review and update the Nonpoint Source Management Plan (NPSMP) every five years.

Lead Agency(ies): DNR and NPS partners **Projected Completion:** December 2004

Status:

Objective 2

Strengthen cooperation and collaboration with other resource programs, agencies and private partners.

Lead Agency(ies): DNR and NPS partners

Projected Completion: Ongoing

Status:

Objective 3

Use appropriate program and financial systems to ensure Section 319 funds are used consistently with legal obligations and environmental benefits are maximized.

Lead Agency(ies): DNR

Projected Completion: Ongoing

Status:

Objective 4

By 2004 identify federal lands and activities that are not managed consistently with state NPS objectives.

Lead Agency(ies): DNR, USFWS

Projected Completion: December 2004

Maintain funding of NPS activities at or above 1999 levels.

Lead Agency(ies): DNR and NPS partners

Projected Completion:

Goal C: Objective Performance Measures

Amount of federal funding directed to NPS activities in Missouri

	2000	2001	2002	2003	2004
NPSMP is reviewed and updated in accordance with implementation schedule					
Numbers and diversity of participants in the Water Quality Coordinating Committee meetings					
Number and diversity of collaborators in development of NPSMP					
Number of federal lands or activities inconsistent with the NPSMP and the addressed of those lands or activities addressed	he number				
Status of GRTS reporting					
Number of projects closed out properly					
Number of MOA's signed					
Procedural improvements identified and implemented					
Amount of state funding directed to NPS activities					

Goal C:	Participating	Status
Implementation Strategies	Agency(ies)	
Organize and support meetings that	DNR	
provide a forum for sharing water	DOA	
quality and NPS information and	MDC	
technologies, such as the Water	UOE	
Quality Coordinating Committee,	NRCS	
Watershed Committee of the Ozarks		
and others		
Work with local authorities and	DNR	
landowners to achieve goals in the	MDC	
state NPSMP	UOE	
	NRCS	
Capitalize on opportunities to provide	DNR	
input regarding NPS issues to other	DOA	
entities	MDC	
	UOE	
	NRCS	
Incorporate NPS-related goals of other	DNR	
groups and agencies in the NPS	DOA	
Management Program as appropriate	UOE	
and provide complementary assistance in achieving those goals	NRCS	
Review and revise the NPSMP	DNR	
according to the following schedule:	MDC	
according to the following schedule.	MIDC	
Annually review and, if appropriate,		
revise the assessment and monitoring		
strategy and funding sources in the		
NPSMP.		
Year two, review and update the		
implementation assistance and		
regulatory authorities.		
Year three, review and update		

remaining categorical sections such as		
land application of permitted wastes.		
Year four, review and revise goals and		
objectives and review legal		
certification of authority. Complete		
updates of any sections not revised		
during the preceding five years.		
Make appropriate revisions to the		
NPSMP as needed when changes in		
environmental conditions or regulatory		
authorities make the existing plan		
irrelevant or inappropriate	DVD	
Use the Water Quality Coordinating	DNR	
Committee and other forums to	DOA	
review, comment, and participate in	NRCS	
the NPSMP review and revision	DND	
Use the Clean Water Commission and	DNR	
public notice procedures to provide the		
opportunity for public review and comments to the revised NPSMP		
	DND	
Maintain current information on Grant	DNR	
Reporting and Tracking System (GRTS)		
Periodic audits conducted	DNR	
Follow EPA guidelines in reviewing, prioritizing, funding and managing	DNR	
activities funded under section 319 of		
the Clean Water Act		
Suggest improvements to state and	DNR	
federal program guidelines when	MDC	
appropriate to enhance NPS	NRCS	
management capabilities	NKCS	
management capabilities		